BRUHAT BANGALORE MAHANAGARA PALIKE

Project: Construction of Bangalore One Centre Building at Balaji Layout and Kodigehalli Village in ward No 8 Kodigehalli, Kodigehalli Sub Division.

Est Cost: =20.0Lakh

Sl.No	Description of Work	Unit	No	L	B	D	Qty.	Rate	Amount
1	KSRB 2-2.1 : Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. No. KBS 2.1(a) / 2.3.5 (Page no -5, item no - 2.3)								
	Bangalore One								
	Footings	2	8	1.30	1.30	1.50	40.56		
	Plinth Beam	2	1	26.70	0.20	0.50	5.34		
	Total Qty	**Cum**					**45.90**	**204.12**	**9369.11**
2	KSRB 2.14-1: Extra for additional lift of 1.5m. or part thereof for excavation In loose / soft or hard soil including cost of materials, labour complete as per specifications. (Page no -7, item no - 2.21)								
	Bangalore One								
	Footings		8	1.30	1.30	1.00	13.52		
	Total Qty	**Cum**					**13.52**	**218.16**	**2949.52**
3	Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @220kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.892cum and fine aggregates @ 465 cum machine mixed, machine mixed,concrete laid in layers not exceeding 15 cms, thick well compacted, in foundation and plinth, including cost of all material, labour HOM Machinery curing complete as per specification,(Page. No. 12 Item No. 4.2								
	Bangalore One								
	Footings	2	8	1.30	1.30	0.15	4.06		
	For Plinth Beam	2	1	26.70	0.20	0.15	1.60		
	Total Qty	**Cum**					**5.66**	**5449.68**	**30834.29**
4	KSRB 4-6.1 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specificaitons. Specification No. KBS 4.6.2(Page No : 15, item No : 4.28)								
	Bangalore One								
	Footings	2	8	4.80		0.45	34.56		
	Total Qty	**Sqm**					**34.56**	**249.48**	**8622.03**

Sl.No	Description of Work	Unit	No	L	B	D	Qty.	Rate	Amount
5	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2(Page No : 15, item No : 4.31)								
	Bangalore One								
	For Plinth Beam	2	2	26.70		0.30	32.04		
	Total Qty	**Sqm**					**32.04**	**316.44**	**10138.74**
6	KSRB 4-6.5 : Providing and removing centering, shuttering, strutting, propping etc., for columns, pillars, post and struts, square / rectangular/ polygon in plan including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 (Page No : 16, item No : 4.32)								
	Bangalore One								
	Columns	2	8	1.10		4.90	86.24		
	Total Qty	**Sqm**					**86.24**	**395.28**	**34088.95**
7	KSRB 4-6.2 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for suspended floors, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specificaitonsupto 3.50m from ground level. Specification No. KBS 4.6.2(Page No : 15, item No : 4.18)								
	Bangalore One								
	Roof Slab	2	1	5.35	8.00		85.60		
		2	1	5.35	0.90		9.63		
	Total Qty	**Sqm**					**95.23**	**338.04**	**32191.55**
8	KSRB 4-6.7 :Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1m in depth including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2(Page No : 16, item No : 4.34)								
	Bangalore One								
	Lintel	2	2	26.70		0.15	16.02		
	Roof Beam	2	2	35.80		0.45	64.44		
	Total Qty	**Sqm**					**80.46**	**276.48**	**22245.58**
9	KSRB 4-6.10 :Providing and removing centering, shuttering, strutting, propping etc., for chajjas, corbels etc., including edges including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2(Page No : 16, item No : 4.37)								
	Bangalore One								
	Chajja	2	8	1.40	0.90		20.16		
	Total Qty	**Sqm**					**20.16**	**291.60**	**5878.66**

Sl.No	Description of Work	Unit	No	L	B	D	Qty.	Rate	Amount
10	KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of Design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.460 cum, with super plasticisers @ 3 liters confirming to is 9103-1999 reafirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6 (Page No : 13, item No : 4.11)								
	Bangalore One								
	Footings	2	8	1.20	1.20	0.45	10.37		
	Columns	2	8	0.20	0.35	4.90	5.49		
	For Plinth Beam	2	1	26.70	0.20	0.30	3.20		
	Total Qty	**Cum**					**19.06**	**6491.88**	**123735.23**
11	KSRB 4.2.8: Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @ 0.46cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in ground floor level for roof slabs, staircase, lintles, and beams retaining walls, return walls, walls (any thickness) including attached plasters, columns, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6. (Page No : 14, item No : 4.13)								
	Bangalore One								
	Lintel	2	1	26.70	0.20	0.15	1.60		
	Roof Beam	2	1	35.80	0.20	0.45	6.44		
	Roof Slab	2	1	4.95	7.60	0.15	11.29		
		2	1	5.35	0.90	0.15	1.44		
	Total Qty	**Cum**					**20.78**	**6650.64**	**138177.02**
12	KSRB 4.2.10 : Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 24kgs, with 12mm and down size graded granite metal coarse aggregates @0.05175cum and fine aggregtes @ 0.0345cum, with superplastisiser @0.225lts, machine mixed, well compacted for plain chajja of 7.5 cms. average thickness, upto ground floor level, including cost of all materials, labour, HOM of machinery, finishing, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6 (Page No : 14, item No : 4.19)								
	Bangalore One								
	Chajja	2	8	1.40	0.90		20.16		
	Total Qty	**Sqm**					**20.16**	**492.48**	**9928.40**

Sl.No	Description of Work	Unit	No	L	B	D	Qty.	Rate	Amount
13	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 - TMT bars Fe 500 (Page No : 17, item No : 4.46.2)								
	Bangalore One								
	120kg/cum for Footings			10.37	120.00		1244.16		
	150kg/cum for Columns			5.49	150.00		823.20		
	120kg/cum for Beams			6.44	120.00		773.28		
	100kg/cum for Slabs			12.73	100.00		1273.05		
	80kg/cum for Plinth, Lintel and Chajja			6.42	80.00		513.50		
							4627.19		
	Total Qty	**Tonne**					**4.63**	**75081.60**	**347417.13**
14	KSRB 2.3 : Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto SO m. and lift upto 1.S m. including cost of all labour complete as per specifications. specification. No. KBS(Page No : 6, item No : 2.10)								
	Bangalore One								
	Around Footings	2	8	1.30	1.30	2.40	64.90		
	Deduct Columns	2	-8	0.20	0.35	2.40	-2.69		
	Total Qty	**Cum**					**62.21**	**137.16**	**8532.45**
15	KSRB 5-11 : Providing and constructing load bearing wall with solid concrete blocks of size 400x200x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 5.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4(Page No :25, item No : 5.27.1)								
	Bangalore One								
	Walls	2	1	26.70		2.65	141.51		
	Parappet Wall	2	1	28.50		1.20	68.40		
	Deduction for openings								
	Door D	2	-1	1.50		2.10	-6.30		
	Window W	2	-8	1.20		1.20	-23.04		
	Total Qty	**Sqm**					**180.57**	**1011.96**	**182729.62**
16	KSRB15-3.10 : Providing 20mm thick cement plaster in single coat with cement mortar 1:6, to stone masonry & concrete surface including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.(Page No :114, item No : 15.20)								
	Bangalore One								
	External Walls	2	1	26.70		3.15	168.21		
	Parappet Wall	2	1	26.70		0.90	48.06		
	Deduction for openings								
	Door D	2	-1	1.50		2.10	-6.30		
	Window W	2	-8	1.20		1.20	-23.04		
	Total Qty	**Sqm**					**186.93**	**224.64**	**41991.96**

Sl.No	Description of Work	Unit	No	L	B	D	Qty.	Rate	Amount
17	KSRB 15.3.2 Providing 12mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications..(Page No.113, Item No.15.10)								
	Bangalore One								
	Internal Plastering	2	1	25.10		3.00	150.60		
	Total Qty	**Sqm**					**150.60**	**178.20**	**26836.92**
18	KSRB15-3-13 : Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to ceiling including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications..(Page No.114, Item No.15.21)								
	Bangalore One								
	Ceiling	2	1	4.95	7.60		75.24		
		2	1	4.95	0.90		8.91		
	Total Qty	**Sqm**					**84.15**	**208.44**	**17540.23**
19	KSRB 15.10.2 Providing white washing for every one additional coat with lime of approved quality, to give an even shade including cost of materials, labour, complete as per specifications. (Page No. 115, Item No. 15.39)								
	Same As Internal and Ceiling Plastering Qnty								
	Total Qty	**Sqm**					**150.60**	**4.32**	**650.59**
20	KSRB 15.10.4 Providing white washing to ceiling and / or sloping roof surface with additional one coat with lime of approved quality, to give an even shade including cost of materials, labour, complete as per specifications.(Page No. 115, Item No. 15.41)								
	Same As Internal and Ceiling Plastering Qnty								
	Total Qty	**Sqm**					**84.15**	**4.32**	**363.53**
21	KSRB 15-16.1 : Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications. - with primer. (P. No. 118, I.No. 15.53.2).								
	Same As External Plastering Qnty								
	Total Qty	**Sqm**					**186.93**	**90.72**	**16958.29**
22	Providing and applying two coats with Plastic emulsion paint of approved brand wall surface to a give an even approved shade after throuughly brushing the surface,free from mortar drops and other foreign matter, including priming , including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications,with primer. (Page No : 117, item No :15.51.2)For internal walls.								
	Same As Internal Plastering Qnty								
	Total Qty	**Sqm**					**150.60**	**97.20**	**14638.32**

Sl.No	Description of Work	Unit	No	L	B	D	Qty.	Rate	Amount
23	Providing and applying two coats with Plastic emulsion paint of approved brand wall surface to a give an even approved shade after throuughly brushing the surface,free from mortar drops and other foreign matter, including priming , including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications,with primer. (Page No : 117, item No :15.51. 2 & 3) for ceiling								
	Same As Ceiling Plastering Qnty								
	Total Qty	**Sqm**					**84.15**	**101.52**	**8542.91**
24	Providing vitrified tiles 60 x 60cms of approved make, shade and size for flooring laid on a bed of 12mm thick cement mortar 1:3 mix, flush pointing with white cement using colour pigment, including cost of materials, labour, curing complete as per specification. (Page No : 107, item No :14.45)								
	Internal Floor Area	2	1	5.00	5.00		50.00		
	Total Qty	**Sqm**					**50.00**	**1200.96**	**60048.00**
25	KSRB 14-17.2 : Providing skirting, dado, rises of steps with colour glazed tiles on 10mm thick cement plaster 1:3 and jointed with white cement slurry over rough plaster surface (excluding cost of rough plastered surface which should be measured and paid separately) using glazed tiles of approved make and size including cost of materials, labour, complete as per specifications. Specification No.KBS 14.16, 14.17 - Colour glazed tiles 30x60 cms 6mm thick with border of size 30 x 10 cms. (P.No.106, I.No. 14.41.2)								
	Bangalore One								
	Skirting	2	1	25.10		0.10	5.02		
	Total Qty	**Sqm**					**5.02**	**1602.72**	**8045.65**
26	KSRB 9.4-2 : Providing Honne wood frames of doors, windows, clerestory windows, ventilators and other frames, wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps), but including cost of materials, labour, HOM of machineries complete as per specifications. Specification No. KBS 9.33 (Page No : 51, item No :9.11)								
	Bangalore One								
	Door D	2	1	7.20	0.125	0.125	0.23		
	Total Qty	**Cum**					**0.23**	**111083.40**	**24993.77**
27	KSRB 9.5-2 : Providing and fixing in position fully panelled Honne wood shutters for doors, styles and rails of 40mm. thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, HOM of machineries complete as per specifications. (excluding cost of fixtures) Specification No. KBS 9.34 (Page No : 51, item No :9.15)								
	Bangalore One	2	1	1.50	2.10		6.30		
	Total Qty	**Sqm**					**6.30**	**5014.44**	**31590.97**

Sl.No	Description of Work	Unit	No	L	B	D	Qty.	Rate	Amount
28	KSRB 7.9:Providing and fixing .S.gill work for windows and ventilators using M.S.flats, or M.S. square rods, or combination of M.S.flats and square rods as per approved design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM of machinery complete as per specifications. Specification No. KBS 7.12 . (Page No : 32, item No :7.9)								
	Bangalore One								
	Window W	2	8	1.20		1.20	23.04		
	at 21kgs/sqm						483.84		
	Total Qty	**Kgs**					**483.84**	**84.24**	**40758.68**
29	KSRB 7.10 : Providing and fixing in position aluminium windows and ventilators as per approved drawings with sliding shutters using double track window frame section of size 61.85x31.75mm. with 1.2mm thick, bottom section weight 0.695 kg/m, sides and top sections 1.3 mm. thick weight 0.659 kg/m; and shutter comprising top and bottom section of size 40mmx18mm, 1.25mm thick 0.417 kg./m; shutter outer side 40mmx18mm, 1.25mm.thick weight 0.417 kg/m, shutter interlock section 40mmx26.7mm, 1.1mm thick, weight 0.469 kg/m. the shutters mounted on nylon rollers with approved quality of fixtures such as aluminium handles tower bolts etc.; and providing and fixing 5.5mm. thick plain glass for shutters fitted with rubber beading aluminium sections including cutting to required length, joints mitred subdividing the frame tenonned and rivetted in the assembled frame stiffened with end clips at corners angles etc., and fixed to the walls, lintels, floor beams/cills as the case may be with necessary steel screws, raul plugs, or teak wood gatties including cutting masonry or concrete and making good the original surface using cement mortar, aluminium sections pretreated for removal of any Specification No. KBS using aluminium section anodized to 12 - 15 microns. (P.No. 301/ I. No. 7.10.1								
	Bangalore One								
	Windows	2	8	1.20		1.20	23.04		
	Total Qty	**Sqm**					23.04	**4123.44**	**95004.06**
30	KSRB 15-17.4 : Applying priming coat over new wood surface and / or wood based surface, after brushing with ready mix enamel priming paint including preparing the surface after thoroughly cleaning oil, grease, dirt and foreign matter, sand papering and knotting ready mix paint including cost of materials, labour, complete as per specifications.(Page. No. 118 Item No. 15.58)								
	Same as Door Qnty								
	Total Qty	**Sqm**					**6.30**	**33.48**	**210.92**

Sl.No	Description of Work	Unit	No	L	B	D	Qty.	Rate	Amount
31	Providing and applying painting two coats (excluding priming coat) on new wood surface and / or wood based surface with enamel paint to give an even shade, cleaning the surface of all dirt, dust and foreign matter, sand papering including cost of materials, labour, complete as per specifications.(Page. No. 118 Item No. 15.60.1)								
	Same as priming coat qnty for Door								
	Total Qty	Sqm					6.30	90.72	571.54
32								TOTAL :	1355584.60
33								Cost towardsElectrical Works	610013.07
34								Cost towards Preparation of DPR LS	13556.00
								Cost towards PMC / Third Party inspection LS	13556.00
35								Sub Total	1992709.67
								Miscellaneous and rounding off	7290.33
								Total	2000000.00

Certificate.

1 The rates adopted based on the PWD SR, Bangalore circle for year 2016-17.
2 The provisions made in the estimate are necessary and essential.
3 The workspot was inspected and work is found to be necessary.
4 The area comes within the Bruhat Bangalore Mahanagara Palike limits.

For Tejus Consultants

Assistant Engineer

Assistant Executive Engineer

Executive Engineer